

## **4<sup>th</sup> Quarterly Report**

### **PUBLIC REPORT**

Date of Report: August 6, 2019

Agreement Number: **693JK31810002**

Prepared for: US DOT/PHMSA

Project Title: **On-Board Power and Thrust Generation for the Explorer Family of Robots for the for the Inspection of Unpiggable Natural Gas Pipelines**

Prepared by: NYSEARCH/Northeast Gas Association

Contact Information: Daphne D’Zurko; 973-265-1900, ext. 214; [ddzurko@northeastgas.org](mailto:ddzurko@northeastgas.org)

For quarterly period ending: July 31, 2019

**Results and Conclusions:** Technical work continued with the completion of the design of the turbine, completion of the design of the energy harvesting module, completion of the manufacturing and assembly of the module, and testing of the stand-alone module in the laboratory. The program is on schedule.

**Plans for Future Activity:** In the next reporting period, we expect to integrate the module on the Explorer 20/26 robot and plan for the field testing of the system.